

trode towards the workpieces, and it need not be tightened or wound up as the electrode is moved away from the workpieces. This also ensures that the strip will always be kept tight, since the winding device too performs the movement of the electrode towards the workpiece and the strip is, thus, prevented in a simple manner from jamming or loosely hanging around.

DM  
10/05/10  
The configuration according to claims ~~14 to 20~~<sup>12 to 18</sup> is also advantageous, since thereby the bracket arranged on the base body of the spot welding gun is able to perform a compensation movement towards the workpieces or sheet metals, with the winding device provided for this bracket likewise performing said compensation movement. The exact positioning of the spot welding gun, which is, in particular, devised for robotic applications, is thereby substantially facilitated.

The present invention will be explained in more detail by way of the accompanying drawings. Therein:

Fig. 1 is a perspective view of a C-shaped spot welding gun according to the invention in the opened state;

Fig. 1a is a perspective view of the C-shaped spot welding gun according to the invention during spot welding;

Fig. 2 is a perspective view of an actuating element of the spot welding gun according to the invention;

Fig. 3 is a perspective view of a preferably L-shaped bracket having a winding device arranged thereon;

Fig. 4 is a further perspective view of a preferably L-shaped bracket of the spot welding gun according to the invention;

Fig. 5 is a further perspective view of a bracket of the spot welding gun according to the invention;

Fig. 6 is a further perspective view of a bracket of the spot welding gun according to the invention; and

Fig. 7 is a schematic perspective view of a further embodiment of a spot welding gun.

Figs. 1 to 6 illustrate a spot welding gun 1 for robotic applications for the resistance welding of workpieces 1a, in particular sheet metals, in a perspective view. This is a so-called "C gun", which is, for instance, used for robotic applications in the automotive industry.

The spot welding gun 1 as represented in Fig. 1 is comprised of a base body 2, a bracket 3, a main element 4 and an actuating